Mathematician

**Job Description:** Theoretical mathematicians come up with new mathematical rules and processes using the latest technology. Applied mathematicians use math rules and processes to solve scientific, engineering and business problems.

**What does a Mathematician do?**

* Help our military and intelligence agencies by designing and deciphering codes to securely transmit and retrieve sensitive information.
* Use mathematical models to predict the growth rate of tumors and how well chemotherapy can shrink them.
* Use math to model interactions between different animals to understand how the extinction of one species could impact the food chain.
* Develop models using math to predict tsunamis that develop after underwater sediment avalanches.
* Develop methods for solving problems that occur in areas of science and engineering or that come from applications in business or industry.

**Outlook: Bright**

Average Salary - $44.99 hourly, $93,580 annual

Projected Job Openings – 1,500 over the next 10 years

**Your Interests:**

* Do you enjoy working with math and technology?
* Are you good at math?
* Are you good at reasoning and logic?
* Do you like to solve problems?

**Education/Program of Study:**

* Bachelor’s Degree in Mathematics for federal government jobs.
* Ph.D. in Mathematics for most private industry jobs.